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ABSTRACT

This proceedings from the 2003 Symposium on Applications and the Internet (SAINT) contains papers from sessions on: (1) mobile Internet, including a target-driven cache replacement policy, context-awareness for service discovery, and XML transformation; (2) collaboration technology I, including human-network-based filtering, virtual collaboration spaces, flexible awareness management abstraction, locking scheme in Internet-based real-time group editors, consistency control system of XML documents, and real-time digital video streaming; (3) Internet computing models, including co-allocation of resources, the ABLES (Agent-Based Environment for Linking Simulations) system, and business process meta management; (4) collaboration technology II, Internet-based real-time locking scheme, consistency control system of XML documents, and real-time digital video streaming system over Ipv6 network; (5) Internet operation and performance, including active queue management mechanisms, link scheduling problems in packet radio networks, and Java framework for search applications; (6) Internet applications, including evaluation of Xpath expressions, robust pointing by Xpath Language, and junk electronic mail in Microsoft Outlook; (7) Web caching, including video-on-demand services, content distribution networks with server replicas, and adapted content delivery; (8) Internet security, including intrusion detection; (9) peer-to-peer models, including a personal service platform, file sharing exploiting hierarchy and asymmetry, and personal task management; (10) network measurements and their applications, including evaluation of intrusion detection systems, cooperative services in a digital government framework, and aggregated-flow rate measurements; (11) network and protocol architecture, including Jini/UPnP interoperability, and the conflict origin AS prefix in the inter-domain routing; (12) performance evaluation, including active diffusion computing, TCP compatibility, and TCP connections and network; (13) information retrieval and fusion, including Web access

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latency, spatial knowledge from the Web, and ADoc-oriented programming; (Short Papers I) E-Services, including heterogeneous Web services, conversational multi-modal browser, bilateral e-services, and NTM-Agent; and (14) mobile and Internet agents, including a distance evaluation system and policy-based mobile agent; (Short Papers II) issues in emerging networks, including unidirectional satellite link, Pixel Navigator, TCP performance in W-CDMA networks, multimedia application and IPv6 ADSL Internet access network, and Web-based feature reduction system; and (Short Papers III) Web related technology, including fast-prototyping methodology, Web proxy server using iSCSI, WebDigest, and Xmark performance study. Statements are included from panels on: broadband contents distribution service and technologies; and comparing Web services in the .NET framework with Java's J2EE (Java 2 Enterprise Edition) and related technologies. Includes an author index. (MES)

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